



Optimized for cleanroom environments, DSTI rotary unions reduce downtime and enhance equipment life.

Semiconductor manufacturing labs demand non-contaminating integration with strict requirements for maintaining high levels of accuracy and performance.

DSTI is dedicated to the success of their customers by being a world-class provider of innovative rotary union solutions for the semiconductor industry. DSTI offers distinct design advantages due to their exclusive dedication to rotary union engineering.

Applications

- + Compact designs for miniature robotic arm actuators
- + Integrated designs for CMP wafer polishing and grinding
- + Supply/return rotary unions for system cooling requirements

Integrated electrical slip ring options

Specialized designs for cleanroom environments

- + SINGLE PASSAGE + 30 RPM + 100 PSI
- + MEDIA: GAS + MATERIAL: STAINLESS STEEL



Specialized Example 1 - designed to handle temperatures as low as -290 degrees F. Features include a specialized assembly for use in a vacuum environment where out gassing cannot occur and leakage cannot escape to atmosphere.

- + 5 PASSAGES + 50 RPM + 100 PSI
- + MEDIA: GAS + MATERIAL: ALUMINUM



Specialized Example 2 - designed for a miniature robotic arm actuator application in a cleanroom environment. Features an all aluminum, lightweight structure and an integrated electrical slip ring for data transfer.

- + 3 PASSAGES + 650 RPM + 80 PSI
- + MEDIA: GAS, WATER + MATERIAL: STAINLESS STEEL



Specialized Example 3 - designed for a semiconductor deposition machine application. Features integrated mechanical seals for water service, specialized lip seals for air service and crosstalk protection.

About Us



DSTI specializes in the design and manufacturing of application-specific fluid solutions worldwide.

Between our proven technology and long-term experience working with highly complex applications, we aim to achieve our customers' project goals by reducing costs, increasing efficiency, and decreasing risks.

Our core business segments are fluid rotary unions, electrical slip rings, and value-added products and services providing a single-source solution from design and manufacturing through to testing and qualification - all under one roof.

We conduct our operations to ensure our people work together and take responsibility for the health and safety of ourselves and others, to minimize our impact on the environment and to ensure the best quality in products and services.



LET'S TALK ABOUT YOUR PROJECT

Contact DSTI to learn more about how we can help you achieve your next project's goals.

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IN-HOUSE CAPABILITIES & SERVICES



ENGINEERING & SIMULATION



PROJECT MANAGEMENT



CNC PRECISION MACHINING



ASSEMBLY, TESTING & QUALIFICATION



INSPECTION & QUALITY MANAGEMENT



WELDING & FABRICATION